

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6,551,277".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/02 17:47
S1	2	"5545140".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/20 08:36
S2	2	"5814015".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 09:52
S3	2	"20040152979"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 09:56
S4	13349	Sakakibara.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 13:18
S5	2	"5919167".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 13:27
S6	2	"4919596".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 13:30
S7	2	"5425716".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 13:33
S8	5	"3812843".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 13:35
S9	2	"4695271".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 13:36

S10	2	"4150672".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 13:46
S11	7713	gripping detector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 13:46
S12	1493	gripping detector piston	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 13:46
S13	47	gripping detector piston claw	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 14:04
S14	209	detector piston claw	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 14:05
S15	20383	detector piston position	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 14:05
S16	12954	detector piston position move	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 14:05
S17	5289	detector piston position slide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/17 14:06
S18	7158	detector piston position slide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/17 14:07
S19	1723	detector piston position slide plunger	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/17 14:07
S20	1615	detector piston position slide plunger control	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/17 14:07

S21	349	detector piston position slide plunger control grip	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/17 14:08
S22	0	detector piston position slide plunger control grip stringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/17 14:08
S23	54	detector piston position slide plunger control grip syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/17 14:08
S24	13	detector piston position slide plunger control grip syringe @py<"2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/17 14:09
S25	23	("3809871"   "4270532"   "4282872"   "4469481"   "4510489"   "4510490"   "4560979"   "4741736"   "4886495"   "5242408"   "5254096"   "5383858"   "5429401").PN. OR ("6019745").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/17 14:22
S26	36	("4322201"   "4460355"   "4747828"   "4836752"   "4898579"   "5047012").PN. OR ("5242408").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/17 14:53
S27	24	S26 @py<"2003"	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/17 15:26
S28	512	604/131.ccls. @py<"2003"	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/17 15:27
S29	64	604/131.ccls. @py<"2003" detector	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/17 16:26
S30	13	600/432.ccls. @py<"2003" detector	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/17 16:27
S31	34251	machine position detector switch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/20 08:38
S32	4200	machine position detector switch clamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/20 08:38
S33	10148	position detector switch clamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/20 08:38

S34	5860	machine position detector switch clamp	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 08:39
S35	2393	machine position detector switch clamp cylinder	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 08:39
S36	1672	machine position detector switch clamp cylinder @py<"2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 08:39
S37	1004	machine position detector switch clamp cylinder @py<"2002" slide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 08:40
S38	2160245	guide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 08:40
S39	780	machine position detector switch clamp cylinder @py<"2002" slide guide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 08:40
S40	302	machine position detector switch clamp cylinder @py<"2002" slide guide grip	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 08:47
S41	192	machine position detector switch clamp cylinder @py<"2002" slide guide grip sensor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 10:32
S42	64	robot position detector switch clamp cylinder @py<"2002" slide guide grip sensor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 11:27
S43	26	position detector switch clamp cylinder @py<"2002" slide guide grip sensor magnet light piston	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 11:41
S44	4	position detector switch clamp cylinder @py<"2002" slide guide grip sensor magnet light piston socket	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 11:45

S45	6	position detector switch clamp @py<"2002" grip sensor magnet light piston socket	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 13:17
S46	31	position detector switch clamp @py<"2002" grip sensor magnet light piston cylinder	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 13:19
S47	1	position detector switch clamp @py<"2002" grip sensor magnet light piston cylinder syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 13:23
S48	35	position detector switch clamp @py<"2002" grip sensor magnet light piston	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 13:25
S49	113	position detector @py<"2002" grip sensor magnet light piston	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 13:28
S50	69	position detector @py<"2002" grip sensor magnet light piston push spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 14:21
S51	12	("5371347"   "5519198").PN. OR ("5831261").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 13:34
S52	67	switch contact position detector @py<"2002" grip sensor magnet light piston push spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 14:23
S53	34	switch contact position detector @py<"2002" grip sensor magnet light piston push spring button	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 14:26
S54	0	switch contact sensor magnet light piston push spring button	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/11/20 14:28
S55	0	switch sensor piston push spring button	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/11/20 14:28

S56	0	switch sensor piston push spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/11/20 14:28
S57	16	switch sensor spring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/11/20 14:36
S58	864	displacement detecting sensor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/11/20 14:39
S59	0	displacement detecting sensor @py<"2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/11/20 14:39
S60	526	S58 @py<"2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 14:40
S61	105	S60 switch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/20 14:41
S62	3320	@py<"2002" sensor magnet light emitting optical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/21 08:07
S63	283	@py<"2002" sensor magnet light emitting optical medical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/21 08:09
S64	61	@py<"2002" sensor magnet light emitting optical medical syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/21 10:09
S65	13	@py<"2002" sensor near20 (magnet light near1 emitting optical) medical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/21 10:22
S66	0	@py<"2002" detect near20 (magnet light near1 emitting optical) medical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/21 10:23

S67	15	@py<"2002" switch near20 (magnet light near1 emitting optical) medical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/21 10:23
S68	15	S67 not S66	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/21 10:24
S69	21	("3167624"   "3987259"   "4054944"   "4088904"   "4257179"   "4441001"   "4594482"   "4598181"   "4879548"   "4977298"   "5177327"   "5231386"   "5283558"   "5574446"   "Re31942").PN. OR ("5977888").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/21 10:30
S70	8	("3167624").URPN.	USPAT	OR	OFF	2006/11/21 14:57
S71	1767	604/67,65,131,151.cds.	USPAT	OR	OFF	2006/11/21 14:59
S72	517	604/67,65,131,151.cds. plunger	USPAT	AND	OFF	2006/11/21 14:59
S73	382	604/67,65,131,151.cds. plunger syringe	USPAT	AND	OFF	2006/11/21 15:00
S74	200	604/67,65,131,151.cds. plunger syringe detect\$3	USPAT	AND	ON	2006/11/21 15:01
S75	40	("3235220"   "3259077"   "3447479"   "3720211"   "3842690"   "3858581"   "3886938"   "3994294"   "4085747"   "4155490"   "4191087"   "4210173"   "4255096"   "4424720"   "4435173"   "4465474"   "4529401"   "4544369"   "4560979"   "4563175"   "4652260"   "4767406"   "4804368"   "4838857"   "4857056"   "4908017"   "4919650"   "4931041"   "4952205"   "4959056"   "4976696"   "4988337"   "5006112"   "5034004"   "5236416"   "5545140"   "5879360").PN. OR ("6428509").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/22 06:47

S76	20	("2707954"   "3122281"   "3678378"   "4275383"   "4384496"   "4448085"   "4463614"   "4584625"   "4629957"   "4652260"   "4815313"   "4862743"   "5232449"   "5235324").PN. OR ("5879360").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/22 06:59
S77	59	("0714923"   "4035822"   "4397188").PN. OR ("4629957").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/22 08:19
S78	65	("3235220"   "3757591"   "3842690"   "3858581"   "3886938"   "4023431"   "4125049"   "4191187"   "4424720"   "4435173"   "4465474"   "4544369"   "4560979"   "4685903"   "4731058"   "4767406"   "4804368"   "4838857"   "4908017"   "4919650"   "4931041"   "4952205"   "4959056"   "4976696"   "4988337"   "5006112"   "5034004"   "5176646"   "5236416"   "5259732"   "5295967").PN. OR ("5545140").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/22 08:55
S79	12944813	("3235220"   "3757591"   "3842690"   "3858581"   "3886938"   "4023431"   "4125049"   "4191187"   "4424720"   "4435173"   "4465474"   "4544369"   "4560979"   "4685903"   "4731058"   "4767406"   "4804368"   "4838857"   "4908017"   "4919650"   "4931041"   "4952205"   "4959056"   "4976696"   "4988337"   "5006112"   "5034004"   "5176646"   "5236416"   "5259732"   "5295967").PN. OR ("5545140").URPN. @py < "2002"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/22 08:55



S80	68	("3235220"   "3757591"   "3842690"   "3858581"   "3886938"   "4023431"   "4125049"   "4191187"   "4424720"   "4435173"   "4465474"   "4544369"   "4560979"   "4685903"   "4731058"   "4767406"   "4804368"   "4838857"   "4908017"   "4919650"   "4931041"   "4952205"   "4959056"   "4976696"   "4988337"   "5006112"   "5034004"   "5176646"   "5236416"   "5259732"   "5295967").PN. OR ("5545140").URPN. @py<"2002"	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/22 08:55
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S82	0	2004012979a1.pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 12:40
S83	0	2004012979a1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 12:57
S84	13389	sakakibara.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/22 12:58
S85	614	sakakibara.in. injection	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/22 12:59

S86	9	sakakibara.in. injection detecting flange	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/22 13:00
S87	31	sudo.in. piston syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/22 13:01
S88	2	"5919167".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/24 14:03
S89	65	("3235220"   "3757591"   "3842690"   "3858581"   "3886938"   "4023431"   "4125049"   "4191187"   "4424720"   "4435173"   "4465474"   "4544369"   "4560979"   "4685903"   "4731058"   "4767406"   "4804368"   "4838857"   "4908017"   "4919650"   "4931041"   "4952205"   "4959056"   "4976696"   "4988337"   "5006112"   "5034004"   "5176646"   "5236416"   "5259732"   "5295967").PN. OR ("5545140").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/27 09:26
S90	2	S89 ultrasonic	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/27 09:28
S91	47	gripping detector piston claw	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/27 09:28
S92	2	S91 ultrasonic	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/27 10:02
S93	337	switch ultrasonic light reflect magnet electrode	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/27 10:06
S94	60	switch ultrasonic light reflect magnet electrode plunger	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/27 10:06
S95	0	switch ultrasonic light reflect magnet electrode plunger syringe	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/27 10:06
S96	48	switch ultrasonic light reflect magnet electrode plunger syringe	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/27 10:07
S97	7	switch ultrasonic light reflect magnet electrode plunger syringe @py<"2002"	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/27 10:09

S98	7	sensor ultrasonic light reflect magnet electrode plunger syringe @py< "2002"	US-PGPUB; USPAT; USOCR	AND	ON	2006/11/27 10:09
S99	10	("5533981"   "5545140"   "5814015"   "5879360"   "6428509").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/23 14:12
S100	0	sakkibara.in. pd> = "08052004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/01/23 14:28
S101	0	sakkibara.in. pd> = "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/01/23 14:27
S102	0	sakkibara.in. @pd> = "08052004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/01/23 14:28
S103	0	sakkibara.in. @pd> = "2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/01/23 14:28
S104	0	sakkibara.in. @py> = "2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/01/23 14:28
S105	2353	sakakibara.in. @py> = "2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/01/23 14:29
S106	43	sakakibara.in. @py> = "2004" injection system	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/01/23 14:31
S107	16	sakakibara.in. @py> = "2004" injection system liquid	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/01/23 15:31
S108	1026661	syringe piston plunger concave	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/24 10:36
S109	534	syringe piston plunger concave	US-PGPUB; USPAT; USOCR	AND	OFF	2007/01/24 10:36
S110	302	syringe piston plunger concave @py< "2002"	US-PGPUB; USPAT; USOCR	AND	OFF	2007/01/24 10:37

S111	0	detection syringe piston plunger concave @py< "2002"	US-PGPUB; USPAT; USOCR	AND	OFF	2007/01/24 10:37
S112	47	detection syringe piston plunger concave @py< "2002"	US-PGPUB; USPAT; USOCR	AND	OFF	2007/01/24 10:37
S113	11	("3720211"   "4108177"   "4191187"   "4407659"   "5106375"   "5322511"   "5505697"   "5505709"   "5647853"   "5722956").PN. OR ("5968015").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/24 10:52
S114	55	ultrasonic range finder syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/01/25 07:50
S115	38	ultrasonic range finder syringe @py> "2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/01/25 07:51
S116	12	ultrasonic range finder syringe @py< "2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/01/25 08:01
S117	11	ultrasonic range finder slider @py< "2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/01/25 08:02
S118	72	concave piston pusher syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/02 11:16
S119	41	concave piston pusher syringe @py< "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/02 11:16
S120	26	concave piston pusher syringe @py< "2003" convex	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/02 11:19
S121	2	concave near5 piston pusher syringe @py< "2003" convex	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/02 11:20

S122	7328	detector piston position slide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/05 08:47
S123	32	S122 switch contact @py< "2002" grip sensor magnet light piston push spring button	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/05 08:47
S124	32	S122 concave near5 ( piston or plunger)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/05 09:54
S125	5	S122 concave near5 (piston or plunger) near5 convex	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/05 10:11
S126	805	S122 ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/05 10:12
S127	468	S122 ultrasonic measure distance	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/05 10:12
S128	186	S122 ultrasonic measure distance @py< "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/05 10:13
S129	32	S122 ultrasonic measure distance @py< "2003" syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/04/05 10:13
S130	83	(US-20040152979-\$ or US- 20010043847-\$ or US- 20030229311-\$ or US- 20020151854-\$ or US- 20020022807-\$ or US- 20010034506-\$).did. or (US- 5545140-\$ or US-5814015-\$ or US-4543970-\$ or US- 5495420-\$ or US-5919167-\$ or US-6290439-\$ or US- 4690673-\$ or US-6263558-\$ or US-6019745-\$ or US- 4245576-\$ or US-5287608-\$ or US-4880792-\$ or US- 5823998-\$ or US-5808203-\$ or US-5681286-\$ or US- 5662612-\$ or US-4747828-\$	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/05 10:27

		or US-5254096-\$ or US-5242408-\$ or US-4560979-\$ or US-5098276-\$ or US-4612946-\$ or US-5911301-\$ or US-4529401-\$ or US-5020411-\$ or US-5427327-\$). did. or (US-5527290-\$ or US-5339799-\$ or US-5425716-\$ or US-4715100-\$ or US-6428509-\$ or US-6090064-\$ or US-6329139-\$ or US-5882338-\$ or US-5954527-\$ or US-6000477-\$ or US-6238111-\$ or US-5977888-\$ or US-4088904-\$ or US-4054944-\$ or US-3167624-\$ or US-6369692-\$ or US-6743205-\$ or US-6673033-\$ or US-6575936-\$ or US-5295967-\$ or US-5236416-\$ or US-5106375-\$ or US-5034004-\$ or US-5879360-\$ or US-4988337-\$ or US-4629957-\$ or US-4584625-\$). did. or (US-4463614-\$ or US-5006112-\$ or US-4815313-\$ or US-5505084-\$ or US-5473945-\$ or US-5408119-\$ or US-5216490-\$ or US-5126812-\$ or US-4035822-\$ or US-7137967-\$ or US-6270479-\$ or US-5259732-\$ or US-4191187-\$ or US-6293658-\$ or US-4743190-\$ or US-5968015-\$ or US-4674372-\$ or US-4937558-\$ or US-4797245-\$ or US-5522680-\$ or US-6302653-\$ or US-6485263-\$).did. or (US-3499203-\$ or US-3167624-\$). did.				
S131	4	S130 ultrasonic optical light emitting	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/05 10:31
S132	421	electronic sensors ultrasonic light emitting magnetic electrical load cell detect	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/05 10:58
S133	45	electronic sensors ultrasonic light emitting magnetic electrical load cell detect syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/05 10:35

S134	10	electronic sensors ultrasonic light emitting magnetic electrical load cell detect syringe @py< "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/05 10:35
S135	82	electronic sensors ultrasonic light emitting magnetic electrical load cell detect @py< "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/04/05 10:58
S136	4599300	sensor or sheet	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/02 14:45
S137	394	sensor and sheet near switch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/02 14:46
S138	26067768	sensor and sheet near switch @ay< "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/02 14:46
S139	275	sensor and sheet near switch @ay< "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 14:47
S140	0	sensor and sheet near switch @ay< "2003" syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 14:47
S141	0	sensor (sheet near switch) @ay< "2003" syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 14:47
S142	0	(sheet near switch) @ay< "2003" syringe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 14:47
S143	1	sensor and sheet near switch @ay< "2003" injector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 14:48
S144	0	sensor and sheet with layer near switch @ay< "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 14:57

S145	31	sheet with layer near switch @ay< "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 14:57
S146	1	sheet with layer near switch @ay< "2003" plunger	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 14:59
S147	26	plunger sheet near switch @ay< "2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 15:19

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